CHEMCATS

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=> FIL STNGUIDE

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.21 0.21

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=> FIL HOME

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
0.06
0.27

FILE 'HOME' ENTERED AT 09:47:55 ON 14 JUN 2005

=> FIL STNGUIDE

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.48

FILE 'STNGUIDE' ENTERED AT 09:48:03 ON 14 JUN 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 10, 2005 (20050610/UP).

=> DIS SAVED

NAME CREATED NOTES/TITLE

LNSEARCH/L TEMP 14 L-NUMBERS

SILANES/A TEMP 9 ANSWERS IN FILE CAPLUS SILPHENOLS/A TEMP 11 ANSWERS IN FILE REGISTRY

TWOAMINOPOLY/Q 16 APR 2001 UPLOADED STRUCTURE

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NO SAVED SDI REQUESTS

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

0.06

0.54

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:48:25 ON 14 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE' "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 14 Jun 2005 VOL 142 ISS 25 FILE LAST UPDATED: 13 Jun 2005 (20050613/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.45 0.99

FILE 'REGISTRY' ENTERED AT 09:48:31 ON 14 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUN 2005 HIGHEST RN 852200-37-4 DICTIONARY FILE UPDATES: 13 JUN 2005 HIGHEST RN 852200-37-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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Please note that search-term pricing does apply when

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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=> e ammonium benzoate/cn
                   AMMONIUM BENZHYDROXAMATE/CN
E1
             1
                   AMMONIUM BENZIDINE-2,2'-DISULFONATE-PYROMELLITIC ANHYDRIDE P
E2
             1
                   OLYMER/CN
E3
             1 --> AMMONIUM BENZOATE/CN
                   AMMONIUM BENZOATE-FORMALDEHYDE-1,1-DIMETHYLHYDRAZINIUM OXALA
E4
                   TE MIXTURE/CN
                   AMMONIUM BENZYL MALEATE/CN
E5
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                   AMMONIUM BENZYL PHENYL PYROPHOSPHATE/CN
E6
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E7
                   AMMONIUM BENZYL PHOSPHOROTETRATHIOATE/CN
E8
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E9
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            1
                   AMMONIUM BENZYLDITHIOCARBAMATE/CN
E10
                   AMMONIUM BERYLLIUM ARSENATE ((NH4)BEASO4)/CN
E11
             1
                   AMMONIUM BERYLLIUM CHLORIDE ((NH4)2BE3CL8)/CN
E12
=> e3
             1 "AMMONIUM BENZOATE"/CN
Ll
=> e phosphorous trichloride/cn
                    PHOSPHOROUS TRIBROMIDE, TUNGSTEN COMPLEX/CN
E1
             1
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E2
E3
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E4
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                                                                     10.62
FULL ESTIMATED COST
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FILE COVERS 1907 - 14 Jun 2005 VOL 142 ISS 25 FILE LAST UPDATED: 13 Jun 2005 (20050613/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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603 L1

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5689 L2 L4

=> 13 and 14

7 L3 AND L4

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- ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN L5
- Method for producing ethers, esters or acid anhydrides especially for ΤI preparing tribenzoyl phosphite from ammonium benzoate and phosphorous chloride including separation of the ammonium chloride
- L5ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- Method for carrying out a solid-liquid reaction ΤI
- ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN L5
- Method for producing N-phosphonomethylglycine by the reaction of TТ hexahydrotriazine with triacyl phosphate in organic solvent and removing the soluble impurities
- L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TΤ Method for producing N-phosphonomethylglycine by the reaction of hexahydrotriazine with triacyl phosphate in organic solvent
- ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN L5
- Method for producing α -aminophosphonic acids by the reaction of ΤI hexahydro triazine derivative with triorgano phosphate
- L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TIMethod for production of N-phosphonomethylglycine
- ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN L5
- Reportable quantity adjustments; delisting of ammonium thiosulfate TI

- L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Method for producing ethers, esters or acid anhydrides especially for preparing tribenzoyl phosphite from ammonium benzoate and phosphorous chloride including separation of the ammonium chloride
- AN 2003:837019 CAPLUS
- DN 139:307604
- TI Method for producing ethers, esters or acid anhydrides especially for preparing tribenzoyl phosphite from ammonium benzoate and phosphorous chloride including separation of the ammonium chloride
- IN Klopp, Ingo; Bogenstaetter, Thomas; Franke, Dirk
- PA Basf Aktiengesellschaft, Germany
- SO PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

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KIND
                                    DATE
                                                  APPLICATION NO.
                                                                             DATE
     PATENT NO.
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                            ____
     WO 2003087025
                                    20031023
                                                  WO 2003-EP3867
                                                                             20030414
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              PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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     EP 1497248
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                                                  EP 2003-720468
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                                                  DE 2002-10216638
                                                                         A 20020415
                                                  WO 2003-EP3867
                                                                         W 20030414
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AB Ethers, esters or acid anhydrides are advantageously obtained when a cake situated on a filtering element and consisting of a first reactant, which is selected from salts of organic or oxygen-containing inorg. acids or alcoholates, is flown though with a solution consisting of a second reactant, which is selected from inorg. or organic acid halides and alkyl halides, whereby the formed insol. halide salt remains on the filtering element. This enables the halide salt to be easily separated in an essentially quant. manner. Thus, ammonium benzoate was reacted with PCl3 in 1,2-dichloroethane in a glass pressure tube provided with a frit to give 18.6% PhCO2H-content in the filtrate, 1.1·1010 mPa·s·m-2 filter resistance of the ammonium benzoate at the reaction start, and 5.0·1010 mPa·s·m-2 filter resistance of the ammonium chloride at the reaction end.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Method for carrying out a solid-liquid reaction
- AN 2003:202537 CAPLUS
- DN 138:223603
- TI Method for carrying out a solid-liquid reaction

IN Klopp, Ingo; Bogenstaetter, Thomas; Franke, Dirk; Munzinger, Manfred

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent LA German

FAN.CNT 1

2.2	PAT	ENT 1	NO.			KINI)	DATE		i	APP	LICAT	ION 1	NO.		Ī	ATE	
ΡI	WO	2003	0204	11		A1	-	2003	0313	1	wo	2002-1	EP96	 59		2	0020	- - - 829
		W:			AL,							, BG,			BZ.	CA.	CH.	CN,
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		1014				A1		2003				2001-					20010	
	TW	5928	29			В		2004	0621			2002-					20020	
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	CA	2458	812			AA		2003	0313			2002-: 2001-:					0020 0010	
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	BR	2002	0121	68		Α		2004	0720		BR	2002-	1216	8		2	20020	829
											DE	2001-	1014	2284		A 2	20010	829
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	JP	2005	5016	95		Т2		2005	0120			2003-					20020	
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AB A solid-liquid reaction is carried by (1) preparation of a reaction suspension containing a 1st reactant which is suspended and a 2nd reactant which is dissolved in a suspension medium, whereby 1 of the reaction products is insol. in the suspension medium, (2) feeding the reaction suspension through a longish reaction zone, whereby the Reynolds number of the flow <20,000, and (3) separation of the insol. reaction product. The method is advantageous in that the insol. reaction product is obtained in a form which is easy to filter. The method is especially suitable for manufacture of (PhCO2)3P by reacting PhCO2Na or PhCO2NH4 with PCl3.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

TI Method for producing N-phosphonomethylglycine by the reaction of

hexahydrotriazine with triacyl phosphate in organic solvent and removing the soluble impurities

- AN 2003:5971 CAPLUS
- DN 138:56081
- TI Method for producing N-phosphonomethylglycine by the reaction of hexahydrotriazine with triacyl phosphate in organic solvent and removing the soluble impurities
- IN Vandenmersch, Huques; Voss, Hartwig; Orsten, Stefan; Wulff, Christian
- PA BASF Aktiengesellschaft, Germany
- SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

ram.	PAT	CENT 1				KIN		DATE		APP	LICAT	ION 1	NO.		D	ATE	
ΡI		2003	0007	04		A 2		2003	0103	WO	2002-	EP69	03		2	0020	621
	WO	2003				A 3		2003			•						
		W:									, BG,						
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	DE	1013	0136			A 1		2003		DE	2001- 2002-	1013	0136		2	0010	
	CA	CA 2451507				AA		2003	0103	CA	2002-	2451	507		2	0020	
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	EP	1401846				A2		2004	0331	EΡ	2002-	7547	34		2	0020	621
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	JP	2004	5354	38		Т2		2004	1125		2003-					0020	
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	AT	2848	90			E		2005	0115		2002-					0020	
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	TW	5755	79			В		2004	0211		2002-					20021	
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	US 2004235664				A 1		2004	1125	US	2003-	4815	65			20031		
											2001-					20010	
										WO	2002-	EP69	03		W 2	20020	621

OS CASREACT 138:56081; MARPAT 138:56081

and alkali halides or earth alkali halides and optionally, organic impurities in a dissolved form. According to the invention, (a) the pH-value of the mixture is regulated to a value of 2-8, (b) the mixture is separated by means

AB The invention relates to a method for producing N-phosphonomethylglycine from an aqueous mixture containing N-phosphonomethylglycine, ammonium halogenides

selective nanofiltration membrane, to obtain a retentate rich in N-phosphonomethylglycine and poor in halogenides and a permeate rich in halogenides and poor in N-phosphonomethylglycine and (c) the N-phosphonomethylglycine is prepared from the retentate. The inventive method enables the production of N-phosphonomethylglycine by simultaneously separating the halogenide salts thereof. Thus, reaction of ammonium benzoate with PCl3 in 1,2-dichloroethane below 36° for 30 min followed by treatment with 1,3,5-Tris(cyanomethyl)-1,3,5-triazacyclohexane and hydrolysis with aqueous HCl gave title compound along-with aminomethylphosphonic

acid, bis(phosphinomethyl)glycine, glycine, NaCl/NH4Cl as dissolved impurities.

- L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Method for producing N-phosphonomethylglycine by the reaction of hexahydrotriazine with triacyl phosphate in organic solvent
- AN 2003:5970 CAPLUS
- DN 138:56080
- TI Method for producing N-phosphonomethylglycine by the reaction of hexahydrotriazine with triacyl phosphate in organic solvent
- IN Wulff, Christian; Orsten, Stefan; Oftring, Alfred; Zehner, Peter
- PA BASF Aktiengesellschaft, Germany
- SO PCT Int. Appl., 29 pp.
- CODEN: PIXXD2
- DT Patent
- LA German
- FAN.CNT 1

FAN.			.00			KIN		DATE				LICAT		NO.		D	ATE	
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20041125 US 2003-481579 **A**1 20031222 US 2004236145 DE 2001-10130135 A 20010622 W 20020621

WO 2002-EP6902

CASREACT 138:56080; MARPAT 138:56080 OS

The invention relates to a method for producing N-phosphonomethylglycine AB by reacting a hexahydrotriazine compound with a triacyl phosphate in an organic solvent and the saponification of the phosphono compound which is obtained

previous extraction into an aqueous phase, and separation of the organic phase. According

to the invention, said method prevents decomposition of the organic solvent

saponification Thus, reaction of ammonium benzoate with PCl3 in 1,2-dichloroethane below 36° for 30 min followed by treatment with 1,3,5-Tris(cyanomethyl)-1,3,5-triazacyclohexane and hydrolysis with H2O gave title compound

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN L5
- Method for producing α -aminophosphonic acids by the reaction of TIhexahydro triazine derivative with triorgano phosphate
- AN 2003:5969 CAPLUS
- DN 138:56079
- ΤI Method for producing α -aminophosphonic acids by the reaction of hexahydro triazine derivative with triorgano phosphate
- Wulff, Christian; Orsten, Stefan; Oftring, Alfred IN
- BASF Aktiengesellschaft, Germany PA
- PCT Int. Appl., 43 pp. SO CODEN: PIXXD2
- Patent DΤ
- German LΑ

FAN.CNT 1

1711.	PATE	N TN	10.			KIN	D	DATE		1	APPL	ICAT:	ION 1	NO.		Di	ATE	
PI,	WO 2	0030	0070)2		A1	_	2003	0103	1	WO 2	002-	EP69	 01		2	0020	621
	1	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			ĊO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
								MD,										
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	ŤΝ,	TR,	TT,	TZ,
			UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,
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	US 2	0042	2361	44		A1		2004	1125					76			0031	
														0134			0010	
										WO 2	002-	EP69	01	1	W 2	0020	621	

CASREACT 138:56079; MARPAT 138:56079 os

The invention relates to a method for producing α -aminophosphonic acids, by reacting a hexahydro triazine derivative with a triorgano phosphate. The inventive method includes a phosphono compound as an intermediate step,

said phosphono compound being hydrolyzed into α -aminophosphonic acid. The invention also relates to said phosphono compound and the method for the production thereof. Thus, reaction of PCl3 with sodium benzoate in 1,4-dioxane followed by treatment with 1,3,5-tris(cyanomethyl)-1,3,5-triazacyclohexane and aqueous HCl hydrolysis gave 91% phosphonomethylglycine in 95.3% purity. The inventive method enables α -aminophosphonic acids to be produced in a simple and economical manner as well as ensuring a high yield and purity.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Method for production of N-phosphonomethylglycine
- AN 2001:489409 CAPLUS
- DN 135:76990
- TI Method for production of N-phosphonomethylglycine
- IN Wulff, Christian; Orsten, Stefan; Oftring, Alfred
- PA Basf A.-G., Germany
- SO PCT Int. Appl., 31 pp.
- CODEN: PIXXD2
- DT Patent
- LA German
- FAN. CNT 1

FAN.	CNT	1																
			.00			KIN		DATE				LICAT					DATE	
PI	WO	2001				A 1		2001	0705	,	WO	2000-	EP13	162		2		
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB	BG,	BR,	BY,	BZ,	CA,	, CH,	CN,
			CR,	CU,	.CZ,	DE,	DK,	DM,	DZ,	EE,	ES	FI,	GB,	GD,	GE,	GH,	, GM,	HR,
			HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP	, KR,	ΚZ,	LC,	LK,	LR,	, LS,	LT,
			LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX	, MZ,	NO,	ΝZ,	PL,	PT,	, RO,	RU,
			SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR	R, TT,	TZ,	UA,	UG,	US,	, UZ,	VN,
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			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,			, MR,						
											DE	1999-	1996	2601		A :	19991	223
	CA	2395	420			AA		2001	0705		CA	2000-	2395	420		:	20001	222
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											WO	2000-	EP13	162	1	W :	20001	222
		2001	0578	73		A 5		2001	0709		AU	2000- 1999- 2000- 2001-	5787	3		- 2	20001	222
	AU	7797	99			B2		2005	0210									
											DE	1999-	1996	2601		A :	19991	223
											WO	2000-	EP13	162	1	W :	20001	222
		1240				A 1		2002 2003	0918		ΕP	2000-	9936	13		:	20001	222
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			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑI	, TR						
											DE	1999-	1996	2601	•	A	19991	223
											WO	2000- 2000-	-EP13	162		W :	20001	222
	BR	2000	0166	68		Α		2002	1008		BR	2000- 1999-	1666	8		_ :	20001	222
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	AT	2403	37			E		2003	0515			2000-					20001	
											DE	1999-	-1996	2601				
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	NZ	5195	93			Α		2003	0530		NZ	2000-	-5195	93		_	20001	.222
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	JP	2003	5191	55		Т2		2003	0617			2001-					20001	
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	PT	1240	173			T		2003	1031		PT	2000- 2000- 1999-	-9936	13		_	20001	.222
											DE	1999-	-1996	2601		Α	19991	.223

ES	2199898	Т3	20040301		2000-993613 1999-19962601	A	20001222 19991223
	2003004370 6818793	A1 B2	20030102 20041116	US	2002-168717		20020624
	·			DE WO	1999-19962601 2000-EP13162	A W	19991223 20001222
US US	2003166966 6660878	A1 B2	20030904 20031209	US	2003-368577		20030220
				DE WO	1999-19962601 2000-EP13162	A W	19991223 20001222
				US	2002-168717	A3	20020624
US US	2004063996 6855841	A1 B2	20040401 20050215	US	2003-664892		20030922
				DE WO	1999-19962601 2000-EP13162	A W	19991223 20001222
				US	2002-168717	A3	20020624
US	2004092765	A1	20040513	US US	2003-368577 2003-678626	A 3	20030220 20031006
35	2001032,03	***	20010010	DE	1999-19962601	Α	19991223
				WO US	2000-EP13162 2002-168717	W A3	20001222 20020624

OS CASREACT 135:76990

AB The invention relates to a method for production of N-phosphonomethylglycine, by reaction of a hexahydrotriazine derivative with a triacyl phosphite. The method produces N-phosphonomethylglycine in a simple and cost-effective manner and in high yield. Thus, reaction of sodium benzoate with PC13 in 1,4-dioxane followed by treatment with hexahydrotriazine gave 91% N-phosphonomethylglycine in 95.3% purity.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

TI Reportable quantity adjustments; delisting of ammonium thiosulfate

AN 1990:83178 CAPLUS

DN 112:83178

TI Reportable quantity adjustments; delisting of ammonium thiosulfate

CS United States Environmental Protection Agency, Washington, DC, 20460, USA

SO Federal Register (1989), 54(155), 33426-84, 14 Aug 1989 CODEN: FEREAC; ISSN: 0097-6326

DT Journal

LA English

AB Under the Federal Comprehensive Environmental Response, Compensation, and Liability Act, the EPA is promulgating final reportable quantities (RQ) for 258 hazardous substances and hazardous waste streams. NH4 thiosulfate is removed from the list of hazardous substances since the median lethal concentration is well above 500 mg/L for aquatic toxicity. Also included in

this

final rule is replacement of the registered trademark Gelthane with the generic name difocal, as several companies manufacture this substance.

```
(LIQ OR LIQS)
       1369964 LIQUID
                 (LIQUID OR LIQ)
L6
         27636 SOLID LIQUID
                 (SOLID(W)LIQUID)
=> liquid solid
        684535 LIQUID
        122807 LIQUIDS
        777393 LIQUID
                 (LIQUID OR LIQUIDS)
        954221 LIQ
         90936 LIOS
        989634 LIQ
                 (LIQ OR LIQS)
       1369964 LIQUID
                 (LIQUID OR LIQ)
        964328 SOLID
        273712 SOLIDS
       1166532 SOLID
                 (SOLID OR SOLIDS)
L7
         20721 LIQUID SOLID
                 (LIQUID(W)SOLID)
=> 16 or 17
        44025 L6 OR L7
=> carboxylate or alkoxide
         64903 CARBOXYLATE
         16535 CARBOXYLATES
         73995 CARBOXYLATE
                 (CARBOXYLATE OR CARBOXYLATES)
         18676 ALKOXIDE
         14493 ALKOXIDES
         26625 ALKOXIDE
                  (ALKOXIDE OR ALKOXIDES)
L9
         99860 CARBOXYLATE OR ALKOXIDE
=> halide
        147910 HALIDE
        123214 HALIDES
        214670 HALIDE
L10
                 (HALIDE OR HALIDES)
=> 19 and 110
L11
          3299 L9 AND L10
=> 18 and 111
L12
             4 L8 AND L11
=> d l12 1-4 ti
L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
TI
     Method for carrying out a solid-liquid reaction
L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
     The ethoxycarbonylation of 4,4'-dibromobiphenyl with palladium-phosphine
     catalysts. Effect of solid-liquid phase transfer
     catalysts
                                                                   1
L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
     Reactions of aryl halides with phenoxides and alkoxides
     by phase transfer catalysis
```

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Catalytic activation of carboxylic anions in two-phase **solid-liquid** media. Preparation of sterically hindered carboxylic acid esters

=> d 112 1-4 ti fbib abs

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Method for carrying out a **solid-liquid** reaction

AN 2003:202537 CAPLUS

DN 138:223603

TI Method for carrying out a **solid-liquid** reaction

IN Klopp, Ingo; Bogenstaetter, Thomas; Franke, Dirk; Munzinger, Manfred

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2
DT Patent

T.A German

LA		man																
FAN	.CNT PAT	ENT I	NO.			KINI		DATE			APP	LICAT	ION I	NO.		D.	ATE	
PI	WO	2003	0204	11		A1		2003			wo	2002-	EP96	59		2	0020	329
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,
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			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	, SL,	ТJ,	TM,	TN,	TR,	TT,	ΤŻ,
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												2002-					0020	829
	BR	2002	0121	68		Α		2004	0720			2002-					0020	
											DE	2001-	1014	2284		A 2	0010	829
												2002-			1		0020	
	NZ	5313	44			Α		2004	1029			2002-					0020	
												2001-					0010	
												2002-			1		0020	
	JP	2005	5016	95		Т2		2005	0120			2003-					0020	
												2001-					0010	
												2002-					0020	
	AT	2898	64			E		2005	0315			2002-					0020	
												2001-					0010	
	***	0001	2045	٥.				2024	1014			2002-					0020	
	US	2004	2046	U5		A1		2004	1014			2004-					0040	
												2001-					0010	
											WO	2002-	ELA0	59		W 2	0020	029

AB A solid-liquid reaction is carried by (1) preparation of a reaction suspension containing a 1st reactant which is suspended and a 2nd reactant which is dissolved in a suspension medium, whereby 1 of the reaction products is insol. in the suspension medium, (2) feeding the reaction suspension through a longish reaction zone, whereby the Reynolds number of the flow <20,000, and (3) separation of the insol. reaction product. The method is advantageous in that the insol. reaction product is obtained in a form which is easy to filter. The method is especially suitable for manufacture

of (PhCO2)3P by reacting PhCO2Na or PhCO2NH4 with PCl3.

- RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
- TI The ethoxycarbonylation of 4,4'-dibromobiphenyl with palladium-phosphine catalysts. Effect of **solid-liquid** phase transfer catalysts
- AN 1994:457076 CAPLUS
- DN 121:57076
- TI The ethoxycarbonylation of 4,4'-dibromobiphenyl with palladium-phosphine catalysts. Effect of **solid-liquid** phase transfer catalysts
- AU Teranishi, Kenji; Takagi, Satoru; Sato, Toshihiko; Hanaoka, Takaaki; Takeuchi, Kazuhiko; Sugi, Yoshihiro
- CS Cent. Res. Lab., Gen. Sekiyu K. K., Kawasaki, 210, Japan
- SO Sekiyu Gakkaishi (1994), 37(3), 333-6 CODEN: SKGSAE; ISSN: 0582-4664
- DT Journal
- LA Japanese
- OS CASREACT 121:57076
- AB The effect of solid-liquid phase transfer catalysts was studied in the ethoxycarbonylation of 4,4'-dibromobiphenyl (I) with palladium-phosphine catalysts. Palladium catalysts with 1,3-bis(diphenylphosphino)propane (dppp) as ligand gave high activity and selectivity for Et 4'-bromobiphenyl-4-carboxylate using sodium bicarbonate as base and tetrabutylammonium iodide as phase transfer catalyst. Tetrabutylammonium chloride gave the highest activity among the tetrabutylammonium halides, and tetraethylammonium bromide was the most effective among the tetraalkylammonium bromides. Sodium carbonate and bicarbonate and potassium carbonate were effective bases for the removal of hydrogen bromide, whereas lithium carbonate and sodium acetate retarded the carbonylation. The reaction was also retarded with increasing carbon monoxide pressure. The rate determining step is the oxidative

addition of I to palladium catalyst similar to the conventional system in homogeneous catalysis, and the phase transfer catalyst enhances the absorption of hydrogen bromide to increase the total reaction rate.

- L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Reactions of aryl halides with phenoxides and alkoxides by phase transfer catalysis
- AN 1984:490061 CAPLUS
- DN 101:90061
- TI Reactions of aryl halides with phenoxides and alkoxides by phase transfer catalysis
- AU Cho, Bong Rae; Park, Sung Dae
- CS Dep. Chem., Korea Univ., Seoul, 132, S. Korea
- SO Bulletin of the Korean Chemical Society (1984), 5(3), 126-9 CODEN: BKCSDE; ISSN: 0253-2964
- DT Journal
- LA English
- AB Reaction of aryl halides with phenoxides and alkoxides was studied under phase-transfer catalytic conditions. 2,4-R(O2N)C6H3X

(I; R = O2N, H; X = F, Cl) reacted readily with phenoxides in NaOH(aq)-C6H6 containing Bu4N+ Br-, affording the products quant. Although I did not react with alkoxides under the same conditions, the reactions were complete within 2 h at room temperature under solid-liquid, phase- transfer catalysis. The reactivity of I decreased in the stated order of R and X, consistent with the SNAr mechanism. The reactivity of oxy anions was lower with liquid-liquid than with solid-liquid, phase-transfer catalysis. The results were explained by the concentration and degree of hydration of the anion in C6H6.

- L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Catalytic activation of carboxylic anions in two-phase **solid- liquid** media. Preparation of sterically hindered carboxylic acid
 esters
- AN 1977:106129 CAPLUS
- DN 86:106129
- TI Catalytic activation of carboxylic anions in two-phase **solid-liquid** media. Preparation of sterically hindered carboxylic acid esters
- AU Normant, Henri; Laurenco, Claude
- CS Lab. Synth. Org., Paris, Fr.
- SO Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques (1976), 283(11), 483-6 CODEN: CHDCAQ; ISSN: 0567-6541
- DT Journal
- LA French
- OS CASREACT 86:106129
- GI

$$R^1$$
 CO_2R^2
 R
 R

AB Hindered K benzoates were esterified by alkyl halides and Me2NCH2CH2NMe2 catalyst to give six esters I (R = OH, Me; R1 = H, Me; R2 = PhCH2, 1-hexyl, PhCOCH2, 4-BrC6H4COCH2). Similarly prepared were 14 RCR1R2CO2R3 [R = Me, H, Ph; R1 = Me, Ph; R2 = Me, Et, Ph; R3 = phenylalkyl, C6-8 alkyl, (CH2)3Br, CH2COMe, CH2OEt], benzyl cyclohexanecarboxylate, and 1-hexyl cyclohexanecarboxylate.

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                GBFULL: New full-text patent database on STN
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                REGISTRY/ZREGISTRY - Sequence annotations enhanced
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NEWS
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        MAR 03
     8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
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NEWS
     9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
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NEWS 12 APR 04
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NEWS 13 APR 04
                EMBASE - Database reloaded and enhanced
                New CAS Information Use Policies available online
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                Patent searching, including current-awareness alerts (SDIs),
NEWS 15 APR 25
                 based on application date in CA/CAplus and USPATFULL/USPAT2
                 may be affected by a change in filing date for U.S.
                 applications.
                 Improved searching of U.S. Patent Classifications for
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      16 APR 28
                 U.S. patent records in CA/CAplus
                 GBFULL enhanced with patent drawing images
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      17 MAY 23
NEWS
     18 MAY 23
                 REGISTRY has been enhanced with source information from
                 CHEMCATS
     19 JUN 06
                 STN Patent Forums to be held in June 2005
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                 The Analysis Edition of STN Express with Discover!
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                 RUSSIAPAT: New full-text patent database on STN
      21 JUN 13
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     22 JUN 13 FRFULL enhanced with patent drawing images
NEWS EXPRESS
             JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
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              STN Operating Hours Plus Help Desk Availability
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              Welcome Banner and News Items
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              Direct Dial and Telecommunication Network Access to STN
NEWS WWW
              CAS World Wide Web Site (general information)
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FULL ESTIMATED COST 0.21 0.21

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 10, 2005 (20050610/UP).

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NAME	CREATED	NOTES/TITLE
LNSEARCH/L	TEMP	14 L-NUMBERS
RXNSRCH/L	TEMP	12 L-NUMBERS
SILANES/A	TEMP	9 ANSWERS IN FILE CAPLUS
SILPHENOLS/A	TEMP	11 ANSWERS IN FILE REGISTRY
TWOAMINOPOLY/Q	16 APR 2001	UPLOADED STRUCTURE

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NO SAVED SDI REQUESTS

=> ACT RXNSRCH/L

_/	MCI	LVIIOUCII\ TI			
L1	(FILE=REGISTRY ABB=ON		N "AMMONIUM BENZOATE"/CN
L2	(1) SEA	FILE=REGISTRY ABB=ON	N PLU=O	N "PHOSPHOROUS TRICHLORIDE"/CN
L3	(603) SEA	FILE=CAPLUS ABB=ON	PLU=ON	L1
L4	(5689) SEA	FILE=CAPLUS ABB=ON	PLU=ON	L2
L5	(7)SEA	FILE=CAPLUS ABB=ON	PLU=ON	L3 AND L4
L6	(27636) SEA	FILE=CAPLUS ABB=ON	PLU=ON	SOLID LIQUID
L7	(20721) SEA	FILE=CAPLUS ABB=ON	PLU=ON	LIQUID SOLID
rs	(44025) SEA	FILE=CAPLUS ABB=ON	PLU=ON	L6 OR L7
L9	(99860) SEA	FILE=CAPLUS ABB=ON	PLU=ON	CARBOXYLATE OR ALKOXIDE
L1() C	214670) SEA	FILE=CAPLUS ABB=ON	PLU=ON	HALIDE
L1:	L (3299) SEA	FILE=CAPLUS ABB=ON	PLU=ON	L9 AND L10
L12	2 (4) SEA	FILE=CAPLUS ABB=ON	PLU=ON	L8 AND L11
	•				

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.06 0.27

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FILE COVERS 1907 - 14 Jun 2005 VOL 142 ISS 25 FILE LAST UPDATED: 13 Jun 2005 (20050613/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> filter cake 227348 FILTER 118530 FILTERS 276683 FILTER (FILTER OR FILTERS) 33604 CAKE **8470 CAKES** 37928 CAKE (CAKE OR CAKES) L13 9341 FILTER CAKE (FILTER(W)CAKE) => solid reactant 964328 SOLID 273712 SOLIDS 1166532 SOLID (SOLID OR SOLIDS) 70389 REACTANT 43747 REACTANTS 109107 REACTANT (REACTANT OR REACTANTS)

L14 518 SOLID REACTANT

(SOLID(W) REACTANT)

=> 113(1)114 L15 1 L13(L)L14

=> d l15 ti

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN Manufacture of silica from clay by calcination conversion

=> williamson L16 1325 WILLIAMSON => 113 and 116 L17 0 L13 AND L16

=> 18 964328 SOLID 273712 SOLIDS 1166532 SOLID (SOLID OR SOLIDS) 684535 LIQUID 122807 LIQUIDS 777393 LIQUID (LIQUID OR LIQUIDS)

954221 LIQ

90936 LIQS

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989634 LIO
                 (LIQ OR LIQS)
      1369964 LIQUID
                 (LIQUID OR LIQ)
        27636 SOLID LIQUID
                 (SOLID(W) LIQUID)
       684535 LIQUID
       122807 LIQUIDS
       777393 LIQUID
                 (LIQUID OR LIQUIDS)
       954221 LIO
        90936 LIOS
       989634 LIQ
                 (LIQ OR LIQS)
      1369964 LIQUID
                 (LIQUID OR LIQ)
       964328 SOLID
       273712 SOLIDS
      1166532 SOLID
                 (SOLID OR SOLIDS)
        20721 LIQUID SOLID
                 (LIQUID(W) SOLID)
         44025 L6 OR L7
L18
=> 113 and 118
T.19
          209 L13 AND L18
=> 113(1)118
L20
          142 L13(L)L18
=> d 120 132-142 ti
L20 ANSWER 132 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
    Working of siliceous manganese ores
    ANSWER 133 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Refining iron-contaminated zinc by filtration and centrifugation
    ANSWER 134 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Pilot tests of hydrometallurgical method of treatment of copper-bismuth
     concentrates
L20 ANSWER 135 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Formation of a new technology of production of antimony and its compounds
    ANSWER 136 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Pilot-plant experiments on the extraction of lead and tellurium compounds
     from the cinder dust of dry electrostatic filters from the sulfuric acid
     industry
     ANSWER 137 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Aqueous lixiviation of sodium mat melts containing tungsten and molybdenum
L20 ANSWER 138 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
TΤ
     Adipic dinitrile purification
L20 ANSWER 139 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Porous structures from poly(tetrafluoroethylene) resins
ΤI
L20 ANSWER 140 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Hydrometallurgical method for processing zinc filter cake
L20 ANSWER 141 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
```

```
L20 ANSWER 142 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
    Treatment of polymetallic ores and concentrates by the sulfatization
TТ
    method
=> ester or ether or anhydride
        562209 ESTER
        419143 ESTERS
       785048 ESTER
                 (ESTER OR ESTERS)
        461960 ETHER
        141962 ETHERS
        520380 ETHER
                 (ETHER OR ETHERS)
        196270 ANHYDRIDE
         31410 ANHYDRIDES
        206356 ANHYDRIDE
                 (ANHYDRIDE OR ANHYDRIDES)
       1339114 ESTER OR ETHER OR ANHYDRIDE
L21
=> 120 and 121
            2 L20 AND L21
L22
=> d 122 1-2 ti
L22 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
     Method for extracting dioscin and diosgenin
L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
     Solid-liquid separations of slurries obtained from the leaching of
     phosphatic clay wastes
=> d 122 1-2 ti fbib abs
L22 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
     Method for extracting dioscin and diosgenin
AN
     2004:376503 CAPLUS
DN
     141:274550
     Method for extracting dioscin and diosgenin
ΤI
     Zhang, Wanju; Zhou, Taikang; Wang, Fuxiang
TN
PA
     Peop. Rep. China
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
SO
     CODEN: CNXXEV
DT
     Patent
LA
     Chinese
FAN.CNT 1
     PATENT NO.
                        KIND
                                DATE
                                           APPLICATION NO.
                                                                   DATE
     _____
                                _____
                                           ______
     CN 1394869
                          Α
                                20030205
                                           CN 2002-125262
                                                                   20020722
PΙ
                                            CN 2002-125262
     The method comprises soaking the rhizoid stem of Chinese yam (Dioscorea
AB
     japonica) in water for 24 h, grinding in water, incubation with lipase at
     40° and pH 7 for 30 h, filtering to obtain filtrate I and
     filter cake I (containing cellulose, lignin, etc.); and
     standing filtrate for 10 h, filtering to obtain supernatant, suspension,
     and starch. Mixing the the filter cake I with the
     suspension and supernatant, adding water to solid/liquid
     ratio of 1:3-4, boiling for 1 h, filtering; repeating the mixing, boiling,
     and filtering processes to obtain filter cake II and
     filtrates, concentrating the filtrates, extracting with alc. several times,
concentrating,
```

Effect of soluble salts present in coals on the flotation of the latter

ΤI

adsorbing with macroporous adsorbent (such as activated C, diatomite, bentonite, or zeolite), drying, extracting with >95% ethanol, precipitating with Et

ether to obtain soluble tetrasaccharide saponin; liquefying the starch and filter cake II with saccharifying enzyme at pH 6.0-6.4, separating to obtain cellulose, lignin, and soluble trisaccharide saponin; saccharifying completely the liquified liquor at (60±2)° and pH 4.0-4.5 for 24 h, filtering to obtain filtrate and filter cake III; hydrolyzing the trisaccharide saponin and the filter cake III with 2 mol HCl, neutralizing, filtering to obtain filter cake IV, drying the filter cake IV at 80°, extracting with solvent gasoline (its b.p. of 120°) to obtain diosgenin, and collecting the wastewater from all processes for recovering ethanol and glucose.

- L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Solid-liquid separations of slurries obtained from the leaching of phosphatic clay wastes
- AN 1992:553889 CAPLUS
- DN 117:153889
- TI Solid-liquid separations of slurries obtained from the leaching of phosphatic clay wastes
- AU Davis, J. G.; Wilemon, G. M.; Scheiner, B. J.
- CS Tuscaloosa Res. Cent., US Bur. Mines, Tuscaloosa, AL, 35486, USA
- SO Advances in Filtration and Separation Technology (1990), 2(Filtr. Sep. Environ. Control Technol.), 375-83
 CODEN: ASTHEA
- DT Journal
- LA English
- The extraction of phosphate values from fine-particle wastes generated during AB conventional mining and beneficiation of phosphate ore was studied, with emphasis on leaching of dried wastes using H2SO4 in the presence of MeOH. Separation of insol. gangue from desired leach liquor in these slurries is challenging because of the fine grain size of the unleached residues. Vacuum filtrations of the slurries yield filter cakes that are tight and difficult to wash, resulting in a loss of product and handling problems. A combination of flocculating agents has been discovered that enhances the settling properties of the solids in these slurries, facilitating solid-liquid separation Flocculation of the slurry with polyethylene oxide (PEO) or a combination of hydroxyethyl cellulose (HEC)-PEO or hydroxypropyl cellulose (HPC)-PEO should enable solid-liquid decantation steps. Faster settling rates and better consolidation of the leach tails were obtained when the cellulose polymers were added as aqueous solns. Use of the HEC-PEO combination for flocculation is the best choice for this application because the HEC is less expensive than PEO or HPC. The effects of parameters such as polymer dosage and order of mixing on the efficiency of flocculation and settling are discussed.

=> d his

(FILE 'HOME' ENTERED AT 12:24:58 ON 14 JUN 2005)

FILE 'STNGUIDE' ENTERED AT 12:25:08 ON 14 JUN 2005 ACT RXNSRCH/L

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L1 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON "AMMONIUM BENZOATE"/CN
L2 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHOROUS TRICHLORIDE"/CN
L3 ( 603)SEA FILE=CAPLUS ABB=ON PLU=ON L1
L4 ( 5689)SEA FILE=CAPLUS ABB=ON PLU=ON L2
L5 ( 7)SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND L4
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27636) SEA FILE=CAPLUS ABB=ON PLU=ON SOLID LIQUID
L6
         20721)SEA FILE=CAPLUS ABB=ON PLU=ON LIQUID SOLID
44025)SEA FILE=CAPLUS ABB=ON PLU=ON L6 OR L7
99860)SEA FILE=CAPLUS ABB=ON PLU=ON CARBOXYLATE OR ALKOXIDE
214670)SEA FILE=CAPLUS ABB=ON PLU=ON HALIDE
L7
L8
   (
L9 (
L10 (
           3299) SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND L10
L11 (
               4) SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND L11
L12 (
     FILE 'CAPLUS' ENTERED AT 12:25:43 ON 14 JUN 2005
           9341 FILTER CAKE
L13
            518 SOLID REACTANT
L14
              1 L13(L)L14
L15
           1325 WILLIAMSON
L16
               0 L13 AND L16
L17
          44025 L8
L18
            209 L13 AND L18
L19
L20
            142 L13(L)L18
        1339114 ESTER OR ETHER OR ANHYDRIDE
L21
L22
               2 L20 AND L21
=> d 120 121-131 ti
L20 ANSWER 121 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Deparaffination of petroleum
L20 ANSWER 122 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Use of ion flotation for extracting tungsten and molybdenum from waste
     products from the Nal'chik hydrometallurgical plant
    ANSWER 123 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Filters with forelayers and sludge thickeners
L20 ANSWER 124 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Oxalic acid. IV. Decomposition of calcium oxalate with sulfuric acid
L20 ANSWER 125 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Removal of water from the filter cake of a highly dispersed suspension
L20 ANSWER 126 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Leaching of zinc filter cakes in the presence of reducing agents
     ANSWER 127 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
L20
     Industrial adoption of the hydrosulfating of lead filter cakes with the
TT
     extraction of zinc, cadmium, and indium
     ANSWER 128 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     Internal flow mechanism in filter cakes
     ANSWER 129 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Improvement of gold recovery in the cyanidation circuit of the Louis Moore
TI
     gold mine
L20 ANSWER 130 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Processing of common salts. VII. Preparation of nitrogen-phosphorus-
     potassium fertilizer and gypsum dihydrate
L20 ANSWER 131 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
     Pilot-plant tests of chlorine-soda leaching of low-grade
```

molybdenum-bearing products

L20 ANSWER 121 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN TI Deparaffination of petroleum AN 1977:538529 CAPLUS DN 87:138529

TI Deparaffination of petroleum IN Hall, Ralph R.; Shaw, David H.

PA Exxon Research and Engineering Co., USA

SO 'Ger. Offen., 27 pp. CODEN: GWXXBX

DT Patent LA German

FAN.CNT 1

FAN.	CNT 1 PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 2659292	A1	19770714	DE 1976-2659292	-	19761229
	DE 2659292	C2	19870625			
				US 1976-646006	Α	19760102
	GB 1564430	Α	19800410	GB 1976-53849		19761223
	•			US 1976-646006	Α	19760102
	JP 52085205	A2	19770715	JP 1976-156630		19761227
	JP 63017876	В4	19880415			
				US 1976-646006	Α	19760102
	NL 7614583	Α	19770705	NL 1976-14583		19761230
	NL 186098	В	19900417			
	NL 186098	С	19900917			
	•			US 1976-646006	Α	19760102
	FR 2337197	A1	19770729	FR 1976-39631		19761230
	FR 2337197	В1	19830107			
				US 1976-646006	Α	19760102
	CA 1089392	A1	19801111	CA 1976-268952		19761230
				US 1976-646006	Α	19760102
	US 4145275	Α	19790320	US 1977-813174		19770705
				US 1976-646006	A 1	19760102

AB In the deparaffination of petroleum products, yields are increased by filtering an oil-wax-solvent slurry, washing the wax filter cake with solvent at -43° to -4°, and recycling 25-100% initial filtrate to deparaffination so that the oil content of the deparaffination solvent is <9 volume%. Thus, lubricant base oil (viscosity 600 SUS at 37.8°) was deparaffinated in 7:3 MeCOEt-PhMe, filtered at -12.2°, and washed with 7:3 MeCOet-PhMe to give an oil with pour point-4.4°. As long as the oil content of the diluent was ≤9% (used-fresh diluent ratio ≤0.93:1) the liquid-solid ratio remained at 3.2-3.5:1, but at higher oil contents the liquid-solid ratio increased sharply.

L20 ANSWER 124 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN

TI Oxalic acid. IV. Decomposition of calcium oxalate with sulfuric acid

AN 1972:45678 CAPLUS

DN 76:45678

TI Oxalic acid. IV. Decomposition of calcium oxalate with sulfuric acid

AU Sasaki, Eiichi

CS Ofuna Tech. Serv. Lab., Mitsui Toatsu Chem. Inc., Yokohama, Japan

SO Kogyo Kagaku Zasshi (1971), 74(12), 2426-9 CODEN: KGKZA7; ISSN: 0368-5462

DT Journal

LA Japanese

AB In the solid-liquid reaction (COO) 2Ca+H2SO4.dblarw.(COOH) 2+CaSO4, the optimum amount of H2SO4 to produce (COOH) 2 was 20-4% concentration and 2.3-2.5 equivs. of the salt; washing the filter cake with dilute and warm H2SO4 was effective in inhibiting the formation of (COO) 2Ca by the reverse reaction.

=> d 120 110-120 ti

- L20 ANSWER 110 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI An improved analysis for the forced gas deliquoring of filter cakes and porous media
- L20 ANSWER 111 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filtering apparatus and a method of filtering a liquid-solids suspension
- L20 ANSWER 112 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filtration of phosphogypsum in the dihydrate method of phosphoric acid production
- L20 ANSWER 113 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI The use of flocculants and surfactants in the filtration of mineral slurries
- L20 ANSWER 114 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI An exploratory study of a combined sonic agglomeration and crossflow filtration system for hot gas cleanup
- L20 ANSWER 115 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN -
- TI Method and apparatus for controlling the treatment of a liquid-solid mixture, especially the dewatering of sludges
- L20 ANSWER 116 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Free-flowing and nondusting additives for rubbers
- L20 ANSWER 117 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Recovery of silver, copper and zinc from partially roasted pyrite concentrate by ferric sulfate leaching
- L20 ANSWER 118 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Apparatus for manufacturing moldings, especially ore pellets from filter cakes from a solid-liquid filter
- L20 ANSWER 119 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI A numerical integration of the differential equations describing the formation of and flow in compressible filter cakes
- L20 ANSWER 120 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Feeding in of the flocculant in the purification of fluorine-containing waste waters
- => d 120 99-109 ti
- L20 ANSWER 99 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Comprehensive utilization of arsenic filter cake
- L20 ANSWER 100 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Interfacial problems in solid-liquid separation
- L20 ANSWER 101 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Backwashing of liquid-solid filters
- L20 ANSWER 102 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Metal powder pigments
- L20 ANSWER 103 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Dehydration of solid-liquid mixtures

- L20 ANSWER 104 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filter cake washing
- L20 ANSWER 105 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- Mechanical dewatering of residual sludge
- L20 ANSWER 106 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- Aggregation of coal suspensions by polyelectrolytes
- L20 ANSWER 107 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- Effect of seed crystals on the decomposition and crystallization of calcium sulfate dihydrate in production of wet-process phosphoric acid from the phosphorites of Karatau
- L20 ANSWER 108 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filter method and apparatus
- L20 ANSWER 109 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- A novel filtration thickener

=> d 120 108 ti fbib abs

- L20 ANSWER 108 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filter method and apparatus
- 1983:597051 CAPLUS AN
- DN 99:197051
- ΤI Filter method and apparatus
- IN Janecek, Louis; Wykoff, Richard H.
- PA Amsted Industries, Inc., USA
- Eur. Pat. Appl., 25 pp.
- CODEN: EPXXDW DTPatent
- English LA

FAN.C	:NT	1										
	PAT	ENT NO.			KIND)	DATE		APE	PLICATION NO.		DATE
ΡI	EP	91822			A2		1983	L019	EP	1983-302050		19830412
	EΡ	91822			A3		19840	0801				
	ΕP	91822	•		В1		19863	1203				
•		R: BE,	DE,	FR,	GB,	IT,	NL,	SE				
									US	1982-367444	Α	19820412
	NO	8301278			Α		1983	L013	ИО	1983-1278		19830411
	NO	159241			В		19880	0905				
	NO	159241			С		19883	1214				
									US	1982-367444	Α	19820412
	AU	8313403			A 1		1983	1020	AU	1983-13403		19830411
	ΑU	555582			B2		1986	1002				
									US	1982-367444	Α	19820412
	JP	58186407			A2		1983	1031	JP	1983-62389		19830411
	JP	61029765			B4		19860	0709				
									US	1982-367444	Α	19820412
	ES	521366			A1		1984	1001	ES	1983-521366		19830411
									US	1982-367444	Α	19820412
	CA	1201071			A1		1986	0225	CA	1983-425620		19830411
									US	1982-367444	Α	19820412
	ES	532441			A 1		1985	0401	ES	1984-532441		19840511
									US	1982-367444	Α	19820412
	US	4622144			Α		1986	1111	US	1984-622976		19840621
									US	1982-367444	A1	19820412

The filtration of a liquid-solid suspension is carried AB out until the rate decreases to a certain point, the suspension feed is stopped, and pneumatic pressure is applied to force out the remaining liquid When the **filter cake** is not substantially impervious to the compressed air, a flexible, impervious curtain is used to apply the pressure to the liquid and cake. The filter has a vertical, cylindrical, filtering element, a central, hollow, sealed drum that decreases the volume, and a flexible tube (plastic, rubber) that is hung from above and disposed in the space between the drum and the filtering surface.

=> d 120 88-98 ti

- L20 ANSWER 88 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI The use of a simple filtration apparatus in showing that high speed blunging affects filter pressing
- L20 ANSWER 89 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Recovery of noble and accompanying metals from electronic scraps
- L20 ANSWER 90 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Pressure filtration of a fine-grained chalcopyrite concentrate
- L20 ANSWER 91 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Preparation of boric acid from crude borax
- L20 ANSWER 92 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filters or centrifuges aspects of selection criteria based on comparative studies
- L20 ANSWER 93 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Sodium-limestone double alkali flue gas desulfurization process with improved limestone utilization
- L20 ANSWER 94 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Preparation of poly(phenylene sulfide) resins in the presence of polar amide solvents
- L20 ANSWER 95 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Continuous multistage final treatment of coal-containing wastewater with flocculant addition in thickener
- L20 ANSWER 96 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Kinetics of formation of a flow-inhibiting boundary layer in liquid-solid filtration
- L20 ANSWER 97 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Filter cake dewatering due to sudden reduction in filtration area of cake surface
- L20 ANSWER 98 OF 142 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Solid-liquid separation technology

=> d his

(FILE 'HOME' ENTERED AT 12:24:58 ON 14 JUN 2005)

FILE 'STNGUIDE' ENTERED AT 12:25:08 ON 14 JUN 2005 ACT RXNSRCH/L

- L1 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "AMMONIUM BENZOATE"/CN
- L2 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHOROUS TRICHLORIDE"/CN
- L3 (603) SEA FILE=CAPLUS ABB=ON PLU=ON L1
- L4 (5689) SEA FILE=CAPLUS ABB=ON PLU=ON L2

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7) SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND L4
L5
          27636) SEA FILE=CAPLUS ABB=ON PLU=ON SOLID LIQUID 20721) SEA FILE=CAPLUS ABB=ON PLU=ON LIQUID SOLID 44025) SEA FILE=CAPLUS ABB=ON PLU=ON L6 OR L7
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L7
L8 (
          99860) SEA FILE=CAPLUS ABB=ON PLU=ON CARBOXYLATE OR ALKOXIDE
L9 (
L10 (
         214670) SEA FILE=CAPLUS ABB=ON PLU=ON HALIDE
           3299) SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND L10
L11 (
              4) SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND L11
L12 (
     FILE 'CAPLUS' ENTERED AT 12:25:43 ON 14 JUN 2005
L13
           9341 FILTER CAKE
L14
            518 SOLID REACTANT
              1 L13(L)L14
L15
L16
           1325 WILLIAMSON
              0 L13 AND L16
L17
L18
          44025 L8
L19
            209 L13 AND L18
L20
            142 L13(L)L18
        1339114 ESTER OR ETHER OR ANHYDRIDE
L21
L22
              2 L20 AND L21
=> reactive
        268032 REACTIVE
           139 REACTIVES
L23
        268129 REACTIVE
                  (REACTIVE OR REACTIVES)
=> 123(1)113
L24
            57 L23(L)L13
=> d 124 47-57 ti
L24 ANSWER 47 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
     Cyano organic sulfonyl chlorides
L24 ANSWER 48 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
     Basic calcium phosphate adsorbents and catalysts
L24 ANSWER 49 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
     Chemotherapeutic nitrofurans. II. The formation and some reactions of
     derivatives of 3-amino-2-iminooxazolidine
L24 ANSWER 50 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
     Polyphosphoric acid as a reagent in organic chemistry. VII. Acylation
TI
L24
     ANSWER 51 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
TΙ
     The preparation of geminally substituted 4-bromobutylamines. III.
     4-Bromo-3,3-dimethylbutylamine
     ANSWER 52 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
     Indones. XXIV. Reactions of dichloroindanones with phenols
TI
L24 ANSWER 53 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     4-Aryl-4-piperidyl ketones
L24 ANSWER 54 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     Magnesium hydroxide product
L24 ANSWER 55 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     Pyrazoles
L24 ANSWER 56 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
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٠Ġ٦

TI Bis(2-carboxyisobutyl) sulfide

L24 ANSWER 57 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
TI Dead burned magnesia

=> d 124 47 ti fbib asb
'ASB' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB ALL ----- BIB, AB, IND, RE APPS ----- AI, PRAI BIB ----- AN, plus Bibliographic Data and PI table (default) CAN ----- List of CA abstract numbers without answer numbers CBIB ----- AN, plus Compressed Bibliographic Data DALL ---- ALL, delimited (end of each field identified) DMAX ----- MAX, delimited for post-processing FAM ----- AN, PI and PRAI in table, plus Patent Family data FBIB ----- AN, BIB, plus Patent FAM IND ----- Indexing data IPC ----- International Patent Classifications MAX ----- ALL, plus Patent FAM, RE PATS ----- PI, SO SAM ----- CC, SX, TI, ST, IT SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY, e.g., D SCAN or DISPLAY SCAN) STD ----- BIB, IPC, and NCL IABS ----- ABS, indented with text labels IALL ----- ALL, indented with text labels IBIB ----- BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ----- STD, indented with text labels OBIB ----- AN, plus Bibliographic Data (original) OIBIB ----- OBIB, indented with text labels SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations HIT ----- Fields containing hit terms HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms HITRN ----- HIT RN and its text modification HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields FHITSTR ---- First HIT RN, its text modification, its CA index name, and its structure diagram FHITSEQ ---- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields KWIC ----- Hit term plus 20 words on either side

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OCC ----- Number of occurrence of hit term and field in which it occurs

specification.

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=> d 124 47 ti fbib abs

L24 ANSWER 47 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN

TI Cyano organic sulfonyl chlorides

AN 1957:34990 CAPLUS

DN 51:34990

OREF 51:6690h-i,6691a-b

TI Cyano organic sulfonyl chlorides

IN Comte, Frederick

PA Monsanto Chemical Co.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 2775609 19561225 US

An improved and reproducible process is reported for carrying out the AΒ reaction Cl3P:NO2SACOC1 (I) \rightarrow Cl02SACN (II) + POCl3 (where A is a bivalent organic group) at a predeterminable and definite temperature, and involving ArSO2NH2 (III) (where Ar is an aromatic group) as a conversion moderator. [In the following, all parts are by weight] A mixture of 263 parts I (A = p-C6H4) and 166 parts POCl heated at 60-65° in vacuo (200 mm.) until about 90% POC13 was removed, further heated to 190°, 10 parts III (Ar = p-MeC6H4) added, the mixture heated 3 hrs. at 190° in vacuo (200 mm.) while POCl3 distilled as rapidly as formed. heated an addnl. hr. at 190° in vacuo (100 mm.), cooled to 50°, 156 parts PhMe added, the whole heated to 70°, filtered, and the filter cake washed with 56 parts hot PhMe (65°) yielded 125 parts II (A = p-C6H4). An inert diluent may or may not be present, and may or may not act as solvent for I, II, or III. Preferred III contain Ar = Ph, MeC6H4, Me2C6H3, Me3C6H2, Me4C6H, EtC6H4, PrC6H4, BuC6H4, PhC6H4, or C10H7, whereas less preferred III contain aryl groups with such substituents as O2N, H2N, HO, MeO, Ac, or Cl. The amts. of III may vary from 2 to 10 parts/100 parts I, and the temperature from 150° to 190°. A in I may be CH2, C2H4, C18H36, cyclopentylene, cyclohexylene, p-C6H4, as well as bivalent groups derived from the phenanthrene, naphthalene, nicotine, and furan nuclei, substituted or not by O2N or Cl. The reactive groups CN and SO2Cl render II exceptionally useful as intermediates in the synthesis of other organic compds.

=> d 124 36-46 ti

- L24 ANSWER 36 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Forming carbides of refractory reactive metals in fused sodium or potassium
- L24 ANSWER 37 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI 2,2-Bis(4-hydroxyaryl)propanes
- L24 ANSWER 38 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Metalized reactive monoazo dyes
- L24 ANSWER 39 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Azo triazole dyes

- L24 ANSWER 40 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Extraction of lithium compounds from spodumene
- L24 ANSWER 41 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Chlorination of alkylpyrazines
- L24 ANSWER 42 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Bisphenols
- L24 ANSWER 43 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Alkyl ethers of tertiary steroid alcohols
- L24 ANSWER 44 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Potential anticancer agents. XI. Synthesis of nucleosides derived from 6-deoxy-L-idofuranose
- L24 ANSWER 45 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Selective reduction by calcium hexammine. I. Aromatic hydrocarbons
- L24 ANSWER 46 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Syntheses of 4-amino-3-isoxazolidinone (cycloserine) and some analogs

=> d 124 43 ti fbib abs

- L24 ANSWER 43 OF 57 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Alkyl ethers of tertiary steroid alcohols
- AN 1961:48837 CAPLUS
- DN 55:48837
- OREF 55:9476a-e
- TI Alkyl ethers of tertiary steroid alcohols
- IN Engelfried, Otto; Schenck, Martin
- PA Schering Akt.-Ges.
- DT Patent
- LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					-
PI	DE 1062698		19590806	DE	
	GB 908284			GB	
	US 3052693		1962	US	

OS CASREACT 55:48837

Tertiary steroid alcs. of the androstane, estrane, and pregnane series, AΒ bearing the tertiary OH group and an ethynyl group on the same C atom, were treated with alkylating agents, optionally with protection of addnl. reactive groups, to give the title compds., useful as pharmaceuticals. Thus, 6.3 g. 17-ethynylandrostene-3,17-diol in 100 cc. tetrahydrofuran was added at -80 to $-\overline{60}^{\circ}$ during 10 min. to a mixture of 150 cc. liquid NH3 and 0.46 g. Na in the presence of a trace of Fe(NO3)3. The mixture was stirred 1-2 hrs. Subsequently, 1.25 g. MeI in 10 cc. tetrahydrofuran was added, the mixture stirred 3 hrs., poured onto ice, acidified with AcOH, the precipitate filtered off, and the filter cake washed. This crude product on acetylation and chromatographic purification over Al2O3 gave 3-acetoxy-17-methoxy-17ethynylandrostene, m. 166-8°, which (after saponification) gave the free alc., m. 168.5-70.5°. The latter was oxidized by the Oppenauer method to give 17-ethynyltestosterone 17-methyl ether, m. 129-31°, $[\alpha]D 150^{\circ}$, $\epsilon 241 16,300$, $\lambda 3.10$, 4.77, 5.98, 6.17, and 9.12 µ. Similarly prepared were: 17-ethynyl-19-nortestosterone Me ether, m. $122.5-4.5^{\circ}$, $\epsilon 240$ 16,650, λ 3.04, 6.00, 6.19, and 9.17 μ ; 17 α -ethynyl-17-ethoxy-5-androsten-3 β -ol, m. $161-4^{\circ}$ (3-acetate m. $124.5-5-5^{\circ}$, which was converted to

17α-ethynyltestosterone Et ether, m. 105-8°, ε240 17,160, λ 3.1, 4.78, 6.0, 6.2, and 9.25 μ); 17α-ethynyl-1,4-androstadien-17-ol-3-one Me ether, m. 134.5-5.5° (hexane), ε203 4,160, ε243 16,020; 17α-ethynyl-17-methoxy-4,6-androstadien-3-one, m. 96.5-8.5°, ε284 26,420, 3.09, 4.75, 6.00, 6.17, 6.29, and 9.12 μ; 17α-ethynyl-17-ethoxy-4,6-androstadien-3-one, m. 125-7°; 17α-ethynyl-6α-methyltestosterone Me ether, m. 133-5°, ε241 15,370; λ 3.06, 4.75, 5.98, 6.20, and 9.14 μ; 3-ethynyl-3-methoxyandrostan-17-one, m. 125.5-7°, λ 3.00, 4.74, 5.74, and 9.17 μ; 17α-ethynylestradiol 3,17-dimethyl ether, m. 143-4° (EtOAc); 17α-ethynylestradiol 17-monomethyl ether, m. 170.5-2° (MeOH), ε285 1960, ε280 2170, ε205 18,170; 20α-ethynyl-20-methoxy-5-pregnen-3β-ol, m. 182-4° (EtOAc), which on oxidation gave 20α-ethynyl-20-methoxy-4-pregnen-3-one, m. 213-15° (EtOAc), ε241 16,430.

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	81.32	81.59
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
<u> </u>	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.11	-5.11

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